Attorney Docket No. 200301701-1 (2162-20301)
Applicants: Eliezer LEVY et al.
Title: A Method Of Parallel Trigger Execution In An . . .
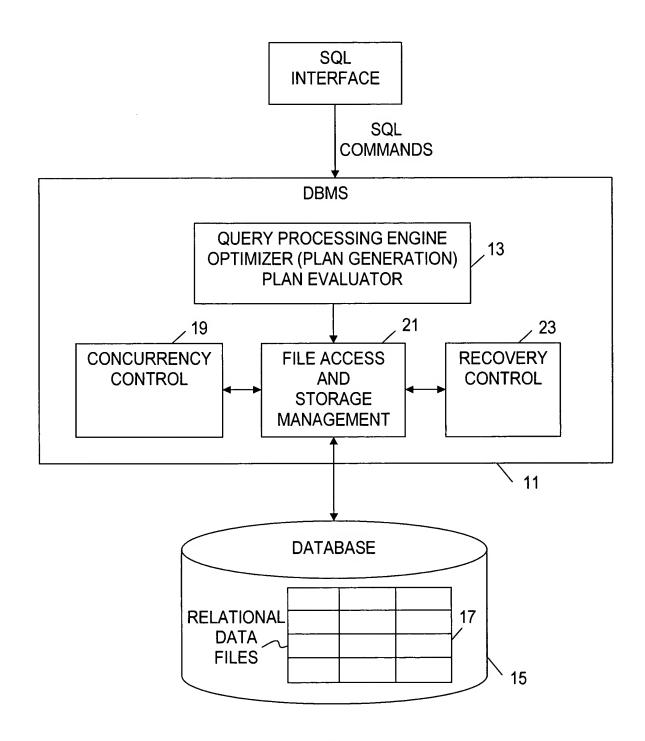
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FIG. 1

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Applicants: Eliezer LEVY et al.
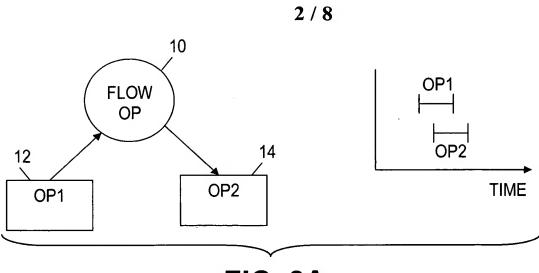Title: A Method Of Parallel Trigger Execution In An . . .

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FIG. 2A

FIG. 2B

FIG. 2C

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PROJECT (F1)

28

Q4

SELECT (C2 & C3)

26

Q2

24 JOIN (C1)

Q1

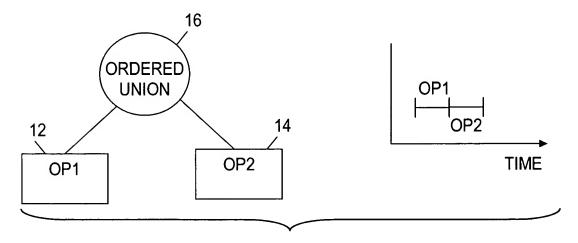Q2

T1

T2

20

SELECT F1
FROM T1, T2
WHERE C1 AND C2 AND C3

22

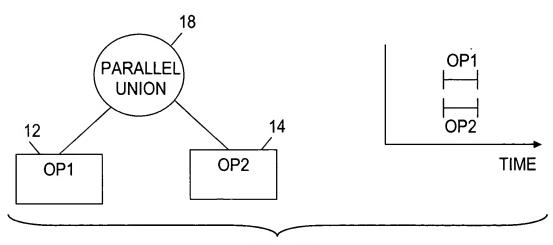# FIG. 3

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TRIGGER
TREE

34

```
CREATE TRIGGER RT1 AFTER INSERT ON T1      30
WHEN (C1)
FOR EACH ROW
BEGIN
    ACTION
END                                         32
```

TRIGGER NAME	EVENT	CONDITION	ACTION
RT1	AFTER INSERT ON T1	C1	

FIG. 4

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OPTIMIZED
PLAN

50

OPTIMIZER

48

INLINED
TREE
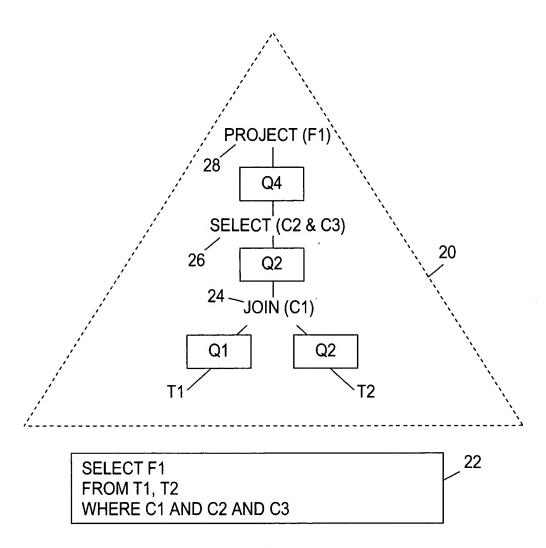
46

OPERATOR
TREE

42

S

+

TRIGGER
TREE

44

T

FIG. 5

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FIG. 6A

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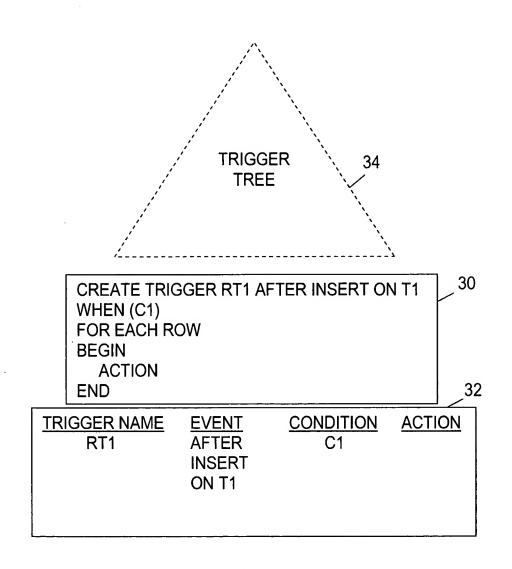Title: A Method Of Parallel Trigger Execution In An . . .

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FIG. 6B

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Applicants: Eliezer LEVY et al.
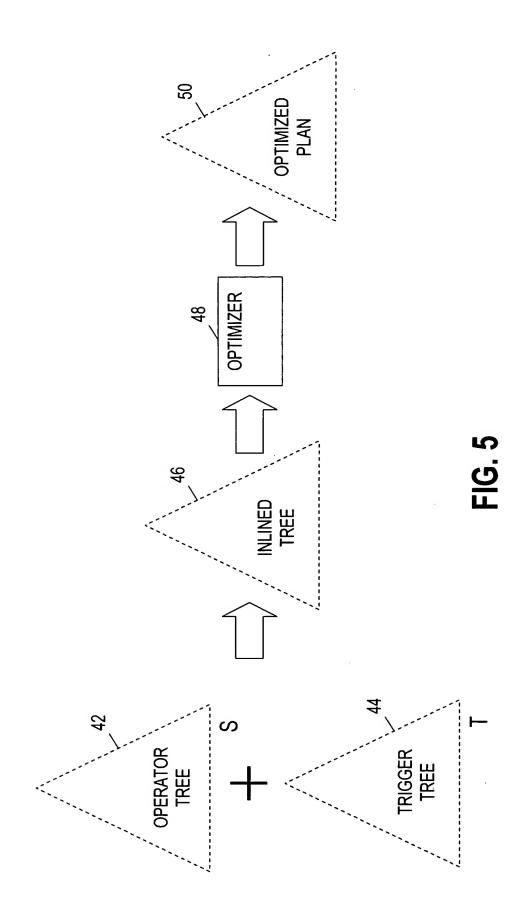Title: A Method Of Parallel Trigger Execution In An . . .

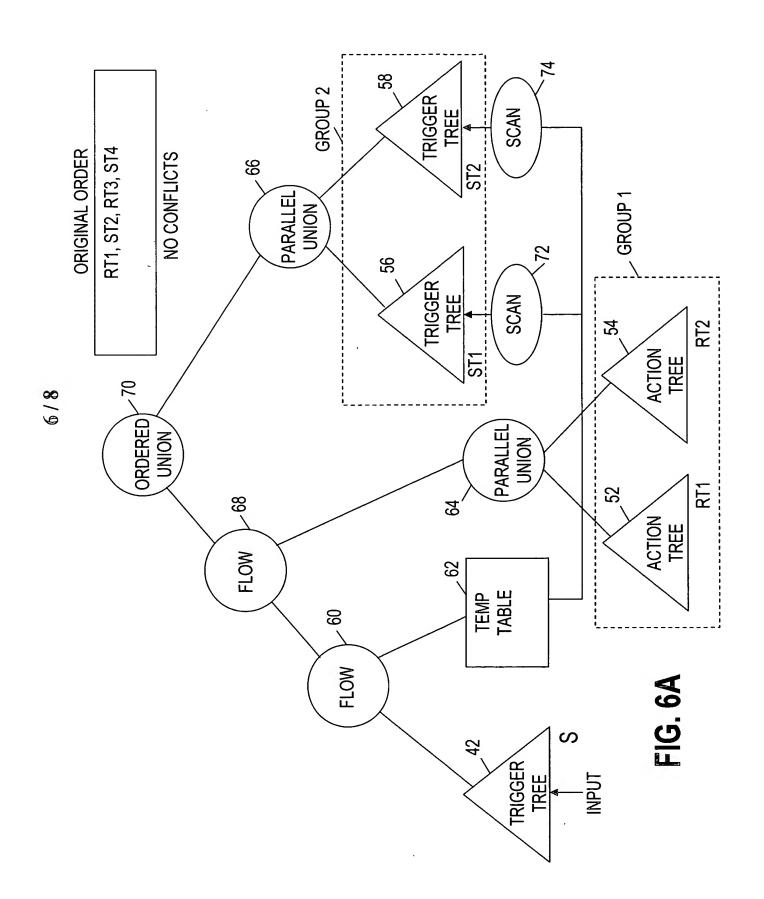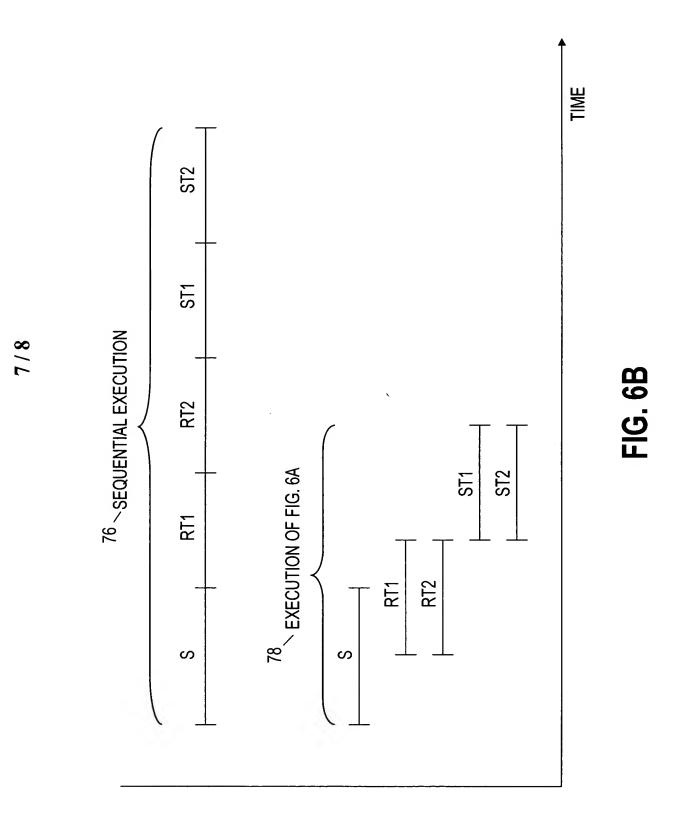8 / 8

START

DETERMINE THE TRIGGERS THAT ARE ACTIVATED BY AN ACTIVATING STATEMENT — 90

FORMING AN OPERATOR TREE FOR THE ACTIVATING STATEMENT — 92

FORMING A TREE FOR EACH TRIGGER THAT IS ACTIVATED BY THE STATEMENT
(TRIGGER CAN BE A ROW OR STATEMENT AFTER TRIGGER) — 94

VERIFY THAT THERE ARE NO CONFLICTS AMONG THE ACTIVATED TRIGGERS AND BETWEEN THE ACTIVATED TRIGGERS AND THE ACTIVATING STATEMENT — 95

96
ROW TRIGGER?

YES

NO

98
JOINING THE ROW TRIGGER TREE TO THE STATEMENT TREE PIPELINED EXECUTION OF THE ROW TRIGGER

100
JOINING THE STATEMENT TRIGGER TREE TO THE STATEMENT TREE FOR EXECUTION AFTER THE STATEMENT TREE USING INPUT FROM A TEMPORARY TABLE

START

FIG. 7